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1. DHP14-005: Development of a Multiplex Bioassay for Early Predictors of Multiple Organ Injury

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Define and develop existing, validated, pre-clinical biomarkers of organ-specific injury that correlate with diverse types of injury to include but not limited to systemic toxicity. Define and resolve issues involved with the use of a diverse set of biomarkers with a single multiplexed methodology. Define and resolve issues related to the isolation and use of diverse biological sampl ...

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2. DHP14-006: Application of a Wireless Finger-mounted Ultrasound Transducer and Imaging Platform

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: The objective of this topic is to develop and demonstrate a wearable finger-mounted ultrasound transducer and ultrasound imaging platform that uses wireless connectivity for image display and operator interface functions on common commercially available hand held platforms. Medics in isolated environments are now conducting FAST exams in the field to determine internal injuries before ...

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3. DHP14-007: Non-Invasive, Head-Mounted Measures of Vestibular Function

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop and test a single head-mounted device capable of measuring vestibular function to include assessment of vestibular-ocular, vestibular-auricular, vestibular-perceptual and vestibular spinal reflexes. DESCRIPTION: Dizziness and vertigo are common in nearly all reported studies of mTBI and contribute disproportionately to disability (Terrio et al., 2009). The 2009 in-theater I ...

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4. DHP14-008: Mobile Applications/Web-Based Management Solutions for Hearing Injuries

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop a mobile, web-based application that assists/guides patients with hearing loss and tinnitus through aural rehabilitation therapy (improving signal identification and speech in noise function) and provides tinnitus management. The program will identify best practice applications for servicemen struggling to habituate to the effects of hearing loss and tinnitus. Possible solutions ...

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5. DHP14-009: Technologies That Reconstruct or Regenerate Vascular Tissue in the Extremities After Traumatic Injury

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: The objective of this effort is to develop a new innovative technology that may include the use of novel biomaterials, nanotopologies, cellular/tissue-based strategies or biologics, to reconstruct and regenerate vascular tissue in the extremities after traumatic injury. DESCRIPTION: Blood vessel trauma leading to hemorrhage or ischemia is a significant cause of morbidity and mortali ...

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6. DHP14-010: Upper Limb Assistive and Rehabilitation Orthotic Device

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: To develop a rehabilitation and assistive technology that enhances and/or returns upper limb motor function losses due to traumatic combat injuries. Develop a portable and easy to use hand worn assistive device that is applicable in daily life and outdoor activities. The device should have biomimetic motion application and structural similarity to biological hand. The device should al ...

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7. DHP14-011: Technologies to Train Myoelectric Prosthesis Users for Optimal Functional Outcomes

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: The objective of this effort is to develop a new tool or technology that can optimize training outcomes for myoelectric prostheses. DESCRIPTION: Myoelectric prostheses monitor electrical signals generated by a patient"s muscle contractions and use those signals to control prosthetic joint movements. Successful use of myoelectric prostheses is dependent on providing patients with high ...

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8. DHP13-001: Humeral Head Intraosseous Training System

Release Date: 04-24-2013Open Date: 05-24-2013Due Date: 06-26-2013Close Date: 06-26-2013

OBJECTIVE: To develop a simulation-based training system to assist teaching and training the use of intraosseous (IO) devices in the humeral head to administer fluid to patients at point of injury. DESCRIPTION: Over the past few years, the British Medical Emergency Response Team (MERT) and US Air Force Search and Rescue Unit (aka, PEDRO) have been administering fluids to patients at point o ...

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9. DHP13-002: Automated Non-Invasive Cognitive Load Assessment for Medical Training Effectiveness and Safety

Release Date: 04-24-2013Open Date: 05-24-2013Due Date: 06-26-2013Close Date: 06-26-2013

OBJECTIVE: Effective team performance is critical during medical emergencies and combat trauma situations. The goal is to make medical team training exercises more useful to participants and more readily interpretable by instructors. The desired result is improved capability to measure -- automatically & noninvasively -- team performance, team dynamics, individual performance, individual cognitiv ...

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10. DHP13-003: Long-lasting Disposable Insecticidal / Repellent Fabric Barrier for Personal or Area Protection Against Biting Arthropods

Release Date: 04-24-2013Open Date: 05-24-2013Due Date: 06-26-2013Close Date: 06-26-2013

OBJECTIVE: Develop fabric barrier with long-lasting repellent and/or insecticide for protecting deployed personnel against biting arthropods, for military use. Product must have potential for EPA registration and use compounds with low mammalian toxicity. DESCRIPTION:

Protection of deployed ground forces from disease-carrying insects requires the immediate and safe use of insecticides, repell ...

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